

THE TECH

VOL. XXVII. No. 49

BOSTON, MASS., MONDAY, FEBRUARY 24, 1908

PRICE THREE CENTS

CROSS COUNTRY TO START WORK SOON.

INTER-COURSE PLANNED.

Easy Runs will be Taken from the Gym and Hare and Hounds Runs will be Resumed.

Cross country work for the coming season will be soon taken up again in real earnest. Light training for the distance and cross country men will begin at the gymnasium Tuesday afternoon at 5 o'clock, and from then on easy work will be done.

The plan is to develop as much as possible any latent running ability that there may be at Tech, and to this end, and to encourage as many as possible who are beginners at distance work to come out, the work at first will be very easy. Therefore, every man, however slow, will be welcomed and expected at



PETER D. WHITE.

the runs, which will be held every Saturday afternoon at 3, and Tuesdays and Thursdays at 5. This will obviate the possibility of interference with school work.

As soon as the ground is in decent shape the weekly hare and hounds runs which have proved of such great value will be resumed. The plan tried last year of dividing the men into a slow bunch and a fast bunch will be taken up again. This will be used both in the hare and hounds runs and in the runs from the gym.

To give the men more experience in actual racing Coach Kanaly intends to hold a cross country race between the different courses at the Institute. This is an entirely new step, and should arouse great interest. Last year a Freshman-Sophomore race was held, but no regular intercourse meet has ever taken place. The date of the run has not yet been decided upon.

Udale, who won the two-mile last year at the New England intercollegiate meet, breaking the record, was exclusively a development of the Technology cross-country system. This is an ample demonstration of the fact that there is a great chance for any one that is willing to come out and do hard and consistent work. It is hoped that by arousing sufficient interest in the work it will be possible to bring Tech again to her former position in intercollegiate cross country running.

The date of the annual Freshman-Sophomore run has been fixed as April 25. This is the same date as the Penn Relay Carnival in Philadelphia, in which Tech may enter a team.

DARTMOUTH WEARS OUT TECH'S FIVE.

BASKET BALL HONORS GO TO GREEN, 22 TO 11.

Freshmen Defeat 1910 in a Rough Game, 19 to 14.

Dartmouth came off with the honors Friday night in the basket ball in the Gym with Technology, 22 to 11.

In the early stages it looked like an even thing, but soon Dartmouth scored several goals from the field. Technology had chance after chance, but Cahill missed four tries straight on fouls. After that Capt. Wentworth threw these goals and did excellent work. The first period closed with Dartmouth ahead, 10 to 4.

In the second half Tech showed the effects of the hard fight and the game lost a good deal of its speed. Penalizing became less frequent.

The Tech Sophomores and Freshmen had a rough-and-tumble contest that resulted in a 19 to 14 victory for '11.

Dartmouth. Technology.
Brady, I.f. r.g., Nichols
Morrissey, r.f. l.g., Parker
Lang (capt.), e. c., Wentworth (capt.)
Dingle, I.f. r.f., Hargraves
Schildmiller, r.g. l.f., Cahill
Score—Dartmouth 22, Tech 11. Goals from floor—Cahill, Wentworth, Nichols, Parker, Morrissey 5, Brady, Dingle 3. Goals on free tries—Wentworth 3, Brady 4. Free tries missed—Cahill 4, Wentworth, Brady 2. Referee—Velte. Umpire—Whitmore. Timers—Dillon and McGrail. Time—20-minute halves. Attendance—200.

WEIGHT WORK BEGINS TODAY.

Field in Front of Lowell to be Scene of Operations.

Regular work for the weight squad of the track team will begin today in the field in front of the Lowell building on Clarendon street. The time set is 4 o'clock. All men who are able to come out for this work should be on hand without fail.

Coach Kanaly will meet the men there and if necessary will arrange some other time for those who would find it inconvenient to come at 4 o'clock. It is highly important, therefore, that all the members of the weight squad show up at the first practice today.

A new discus has been purchased, and the other weights have been brought in from the Field. They will probably be kept somewhere in the Lowell building.

TWO FENCING MEETS CANCELLED.

Harvard and Princeton Meets Off, Latter Without Reason.

Two meets that appeared on the schedule of the fencing team have just been cancelled, notification to that effect being recently received by Manager Moses. Harvard has indicated her inability to meet Tech on account of the loss to her team of two men. An effort will be made, however, by Manager Moses to arrange for some kind of a meet between the two institutions.

Princeton has also cancelled the contest she was scheduled to have with Tech, giving no reason for such action. This leaves but one meet on the schedule of the team, if the intercollegiate contest is excepted. The meet that does remain is a triangular one between Yale, Harvard and Technology.

NEW YORK MAN WILL SPEAK.

T. H. Wiggin 1895, of the New York Water Board, will address the Civil Engineering Society, Wednesday evening, at the Union, on "New York's New Water Supply." The talk will be illustrated by lantern slides.

The dinner will be held at 6:30 P.M., but men other than members of the Society are invited to be present at 8 o'clock to hear the lecture.

HARD TIMES HIT MINING GRADS.

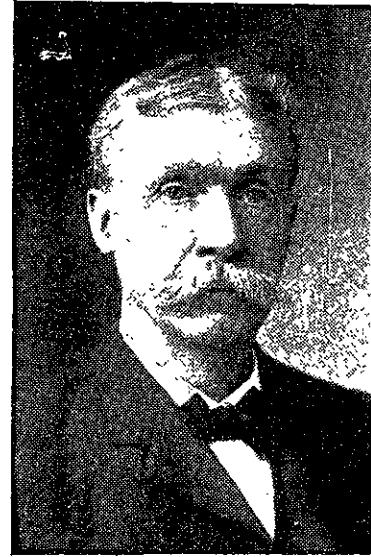
A FEW OUT OF WORK.

Many Welcome Vacation. New Apparatus. Register of Mining Students.

That the recent panic and tightness of the money market has affected the mining industries, this being felt by the graduates from this department, is the report from the Institute mining department.

A few graduates have written to Prof. Richards, head of the department, asking for places, while quite a number are taking advantage of the hard times to get a vacation which they have not had in recent rush times.

Among the former students of the mining course who have called at the Institute recently are R. H. Sweetser, who is changing from Sault Ste. Marie to Columbus, Ohio; Mr. W. A. Sheldon,



PROF. RICHARDS.

whose establishment has shut down: Mr. R. B. Williams, who has just returned from a three years' service in Ecuador; Mr. A. F. Bennett, who is on a vacation from Mexico; Mr. T. F. Geraghty, on a vacation from Chicago; Mr. A. W. Tucker, in Boston on company business; and Messrs. Moses Brown, A. H. B. Arnold and F. F. Concord, on vacation.

There have been recently added to the apparatus in the mining department two new pulsator classifiers, and one new pulsator jig. They are the property of Prof. Richards, but are placed at the disposal of the students.

Also there has been installed a Wifley table top with certain improvements, and a new Hansell jig and two new compressors have been added to the plant. There is in contemplation a Johnston vanner.

In the direction of furnace work and metallurgy, in the blast furnace and reverberatory work, measurements of temperature and analyses of gases have been introduced for the making of complete computation of heat developed and the distribution of heat, and a new Friedrich gas reverberatory furnace, a new Heraeus electric resistance tube furnace, and a new Siemens millivoltmeter have been added.

The fourth-year laboratory list in the department contains twenty-four students, third-year mining list contains twenty-nine, the second-year class in elementary mining contains fifty-two. While the fourth year is a little smaller than it has been for the last two or three years, the classes will average up fully to the numbers in it last year.

ENGAGEMENTS.

Mrs. H. C. Taggart of Boston announces the engagement of her daughter, Bertha Davette, to Prof. H. Lewis Jackson 1895, now at the University of Kansas.

NUMBER OF STUDENTS INCREASED TO 1410.

OF THIRTEEN COEDS ELEVEN TAKE COURSE IV.

Eighty Students Represent Thirty-One Foreign Countries.

An increased enrollment, an increased diversity of countries from which the students come, together with other interesting changes and information is given in the Registrar's report, just issued. It is with the President's report, which was given out earlier in the year.

In regard to the instructing staff, including those at the mechanical laboratories, but excluding the research associates and assistants, and those who are announced annually as lecturers only, the number is 210. Counting all there are 253, an increase over last year from 241. Not taking into account the research associates and assistants and lecturers the number of members of the instructing staff to that of students in regular attendance bears the proportion of 1 to 6.7. This is a decrease from last year from 1 to 6.9, due to an increase in the staff.

The number of students has risen, this year, from 1397 to 1410. The gain is in the fourth-year and second-year classes. In the third-year and first-year there is a loss in the number of students. The number of regular students is larger than last year, the special students constituting only 36 per cent. of the whole body as compared with 41 per cent. last year, and 42 per cent. the year before.

There are at present 20 resident fellows and advanced students, 326 fourth-year, 306 third-year, 371 second-year, and 327 first-year students. The number of new students is 527, a slight decrease from last year's number, which was 535.

(Continued on page 3.)

BACK BAY SMOKE CAUSES FOGS.

Prof. Winslow Says Conditions Are Abominable.

That the presence of fine particles of unconsumed carbon arising from chimneys and smokestacks of Boston are responsible largely for the fogs and are an important factor in shutting out the sunlight was the statement made by Prof. C. E. A. Winslow before the Massachusetts legislative committee on metropolitan affairs.

Prof. Winslow said the conditions in the Back Bay are abominable, and that a serious aesthetic damage is done to the community.

The hearing was on the petition of Representatives Nichols and Ferber to provide for the abolition of the smoke nuisance, the bill being the same as that of last year, which was killed in the Senate.

PROF. DOTEN MAKING EXPERIMENT.

Is Prof. Doten of Research Department in School for Social Workers.

The department of economics has been called upon to co-operate this year in the establishment of a new and promising experiment in sociology. Professor Carroll W. Doten, in addition to his regular duties at the Institute, is acting as head of the research department recently established in the School for Social Workers in this city.

Under his supervision three subjects are being studied: co-operation in its various forms, seasonal and irregular employments, and inclemency. This last subject is being approached from two points of view, or, rather, is the point of departure for two separate lines of investigation: the study of individual cases and the methods of treatment in hospitals, penal institutions, and under the probation system; and a careful inquiry into the effects of license and no-license in several Massachusetts cities under the local option law.

THE TECH

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Monday, February 24, 1908.

GRATIFYING.

The large part that the professors of the Institute have come to take in public affairs can not but be gratifying to all connected with the Institute. The single instances of Prof. Winslow's testimony on the cause of fog in the Back Bay, and of Prof. Doten's connection with the research department of the School for Social Workers, given in another column of this issue, are only examples of the kind of work that members of the Faculty are constantly being called upon to do.

It is gratifying to the students to know that they are being taught by such men, and it is also gratifying to all who are working for the best interests of the Institute to have Technology so well advertised in the world of public affairs and the world of education.

NO TIME LIKE THE PRESENT.

Today regular work begins for the weight men, and tomorrow the long distance runners will start a course of training preparatory to this year's season. It is the intention of Coach Kanaly to develop as much of the latent material at Tech as possible. In this he should be sincerely backed by every man at the Institute, not alone in spirit, but in bodily presence and work as well.

In the field events Tech has always been weak, and this weakness has lost more than meet. As in all other branches of athletics, a good weight man has to be developed and many a Tech man who thinks he is unable to put the shot or throw the hammer may, by faithful practice, become a future record-breaker.

So too, with cross-country running, Udale, who last spring broke the New England intercollegiate record for the two-mile run, and Eldred, who has done such good work in the mile, are both instances of men who have been developed by Technology's cross-country system.

But it is important that each man who would like to enjoy the fun and exercise of athletic work should report to Coach Kanaly, not two or three days or two or three weeks from now, but at once.

FOLLOWING BOOKS ARE MISSING.

Students are Requested to Return Them at Once.

Copies of the following books belonging in the Engineering Library are recently missing from the shelves. Will anyone seeing any of these books in the drawing rooms or class rooms kindly return them to the librarian at once, as they are text-books in daily use in the library, and the only copies owned by the Institute:

Godfrey, E. Structural Engineering. Book I. Tables. 1905.

Kent. Mechanical Engineer's Pocket Book.

Peabody, C. H. Thermodynamics of the Steam Engine. Ed. 4. 1903.

Trantwine. Engineer's Handbook. Ed. 3. 1902.

Merriam, M. Treatise on Hydraulics. Ed. 8. 1903.

Sanborn, F. B. Mechanics—Problems for Engineering Students. Ed. I. 1902.

Molitor & Beard, E. J. Manual for the resident engineers. 1903.

WILL TALK ON MISSION WORK.

Rev. Fr. Walsh to Address Catholic Club.

On Tuesday evening Rev. Fr. Walsh will give an interesting lecture before the Catholic Club on work accomplished by the missions in China. Rev. Fr. Walsh is thoroughly acquainted with the missionary work going on in the Far East. The meeting will be held in 16 Rogers at 8 P.M.

DEGREE OF REGULATION INCREASED.

Prof. Lawrence Adds Regulation to Westinghouse Generators.

By the addition of another Tirrell regulator, Professor R. R. Lawrence has increased the degree of potential regulation on the power plant. Heretofore an alternating current regulator has regulated the voltage on the 100 kilowatt 60 cycle generator alone. A direct current regulator has now been placed in connection with the two Westinghouse generators so that the direct current voltage can be regulated as well. The regulation of the load in a testing laboratory is a very important matter in as much as the degree of accuracy in performing many of the tests is dependent upon the constancy of the impressed voltage so that this additional regulator is a most valuable accession to the electrical engineering laboratory.

RELIGION LACKS POWER.

"The amount of power that God gives us is in proportion to the load we carry or the work we do," said Rev. A. Z. Conrad of Park St. Church, yesterday at the Y. M. C. A. meeting. He further said, "If religion lacks anything it is power. The reason is that christians who are faultless as to the form of their religion are not alive. They are like the silver statues of the apostles which Cromwell found in the niches of York Cathedral, and which he set about doing good by making them into coin."

Much interest is being shown by Tech men in the advertising competition of the American Motor Company. A large number of men have been to this company's store on Clarendon street, opposite the Walker Building to look over the M. M. motorcycle preparatory to writing ads.

The Marsh-Metz machine sold in this store ought to be of interest to all Institute men in mechanical engineering work, because of its construction and engine.

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NUMBER OF STUDENTS.

(Continued from page 1.)

The number of college graduates enrolled is 166, which includes 20 candidates for advanced degrees. The number last year was 200. The number of new students from other colleges this year is 155, an increase of one over last year. The list of colleges represented contains nearly every college and university in the country, it would seem, with the addition of a number of foreign institutions. Harvard and the United States Naval Academy send the greatest number, 16. Princeton comes next, with 11, the Institute next, with 10. Yale, Johns Hopkins, and the University of Texas each send six, Brown comes next with five, while Amherst, Bowdoin, Chicago, Washington and Jefferson, and Williams, each are represented by four.

Among the foreign colleges represented are Anatolian, Turkey; Central Technical School of London University; Dalhousie, Nova Scotia; Havana University, Cuba; National University, Buenos Ayres, and Trinity College, Cambridge University.

Forty-three states of the Union, and one territory, besides the District of Columbia, Hawaii, Porto Rico, and the Philippines, are represented on the list of students. While North Carolina, Idaho, and Louisiana are not represented at the Institute by students this year, Arkansas, New Mexico and Oklahoma, each of which had no representatives last year, are now represented.

Massachusetts naturally sends the greatest number, 781, while New York is second, with 82. Pennsylvania with 57, Illinois with 31, Connecticut with 29, and Rhode Island with 28, are the other states to send fair sized delegations. From the outlying territories there are two students from Hawaii, one from the Philippines, and three from Porto Rico.

The number of foreign students has again risen from 76 last year to 80 this, and in place of 29 countries represented last year at the Institute there are now 31. Mexico leads with 12 students, while China follows closely with 9. England and Cuba have four students each, while Ireland, Japan, Australia, Nova Scotia, and Transvaal are each represented by three.

From South America, Argentine Republic, Chile, Costa Rica, Ecuador, Panama, Paraguay, Peru, and Uruguay each are represented.

The number of women pursuing courses at the Institute is 13, one of whom is a college graduate. Of this number 11 are taking the course in architecture, with one in chemistry.

All the counties in Massachusetts send students, and of the cities and towns of the state, 128 are on the list. Middlesex county leads, with 238 students, Suffolk comes a close second, with 218, while Essex and Norfolk are third and fourth, with 105 and 95 respectively. Boston sends 201 students, Newton 46, Brookline 39, Cambridge and Somerville

each 28, and Lowell 18.

Of the 1410 students of the present year, in regular attendance, 527 were not connected with the school last year. Of these 252 were admitted as regular students in the first year upon the basis of their entrance examinations. The 275 remaining comprise those who had previously been connected with the Institute, and have resumed their places in the school; those who were admitted provisionally without examinations; those who were admitted as regular second-year or special students, and those from other institutions.

PROF. JAGGAR GOES TO LEGISLATURE.

Professor Thomas A. Jaggar, Jr., has introduced a bill into the Massachusetts Legislature proposing the preparation of a State geological and economic atlas, to be published in separate sheets accompanied by reports of the natural resources of the Commonwealth, and providing for the establishment of a new survey preparatory to the publication. As such a survey would be of immense value, it is hoped that it will have the hearty support of all interested in science and the economic welfare of the State.

New advanced courses have been devised by the electrical engineering department for the purpose of keeping up with the advance of the profession. Prof. Clifford has developed his lectures on alternating current phenomena along progressive lines, and courses are given by Professors Laws in electrical testing, Shad in power station and distribution system design, Lawrence in electrical laboratory and Derr in dynamo design. The present tendency in the industrial world is running strongly toward the appointment to administrative positions in public utility companies of technically trained engineers that the department has felt it advisable to do all it can toward fitting its students for administrative as well as technical work. For this reason Prof. Jackson is giving a graduate course on the organization and administration of public service corporations, with especial attention to their relations with the public, individually and in the government. The department of economics is to aid in the presentation of this course with treatment of the requirements of public interest.

NOTICE.

1906—At the class dinner held on Wednesday, Feb. 12, it was voted to hold regular informal dinners of the Central Branch of 1906 on the first Wednesday of each month. These dinners will be held at the Technology Club, at 6 P.M. Anyone who wishes to be reminded just before the dinner each month will kindly send six self-addressed return postal cards to Herbert S. Whiting, 112 Water Street, Boston, Mass.

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